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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/729,103	12/05/2000	Kenzi Suzuki	200538US0	6416	
22850	7590 06/10/2003				
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER		
	1940 DUKE STREET ALEXANDRIA, VA 22314			MEDINA SANABRIA, MARIBEL	
			ART UNIT	PAPER NUMBER	
			1754	***	
				DATE MAILED: 06/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/729,103	SUZUKI ET AL.		
		Examiner	Art Unit		
		Maribel Medina	1754		
		nication appears on the cover sheet w	with the correspondence address		
Period fo	• •				
THE I - Exter after - If the - If NO - Failur - Any n	MAILING DATE OF THIS COMMUN sions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty period for reply is specified above, the maximum re to reply within the set or extended period for rep	ns of 37 CFR 1.136(a). In no event, however, may a nmunication. (30) days, a reply within the statutory minimum of th	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this communication,  ABANDONED (35 U.S.C. § 133).		
1)🖾	Responsive to communication(s)	filed on <i>14 April 200</i> 3 .			
2a)⊠	This action is FINAL.	2b) This action is non-final.			
3)	Since this application is in condition closed in accordance with the pra	on for allowance except for formal motice under Exparte Quayle, 1935 C	atters, prosecution as to the merits is		
Dispositi	on of Claims	, , , , , , , , , , , , , , , , , , , ,	,,		
4)⊠	Claim(s) 1-3 is/are pending in the	application.			
	4a) Of the above claim(s) <u>4-8</u> is/are	withdrawn from consideration.			
5)	Claim(s) is/are allowed.				
	Claim(s) is/are rejected.				
7)	Claim(s) is/are objected to.				
	Claim(s) are subject to restr on Papers	iction and/or election requirement.			
9)[] ]	The specification is objected to by the	ne Examiner.			
10) 🔲 🗆	The drawing(s) filed on is/are	e: a)☐ accepted or b)☐ objected to by	the Examiner.		
		ojection to the drawing(s) be held in abe			
11) 🔲 🗆	The proposed drawing correction file	ed on is: a) approved b)	disapproved by the Examiner.		
_	If approved, corrected drawings are re	·			
	The oath or declaration is objected t	o by the Examiner.			
Priority u	nder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a clair	n for foreign priority under 35 U.S.C.	. § 119(a)-(d) or (f).		
a)[	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
	application from the Inter	s of the priority documents have been national Bureau (PCT Rule 17.2(a)). on for a list of the certified copies no	•		
14)□ A	cknowledgment is made of a claim	for domestic priority under 35 U.S.C	s. § 119(e) (to a provisional application).		
	_	nguage provisional application has I for domestic priority under 35 U.S.C			
Attachment	_	· •			
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review ( nation Disclosure Statement(s) (PTO-1449) f	PTO-948) 5) Notice of	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)		

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## **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by US Patent No. 4,666,945 (Osugi et al).

Osugi et al discloses a method for producing a CuZnAlZr oxide catalyst, comprising the steps of: (a) adding a suitable precipitating agent to a mixed aqueous solution of water soluble copper-, zinc-, zirconium-, and aluminum- compounds to coprecipitate a mixture of water insoluble copper-, zinc-, zirconium-, and aluminum- compounds (See col. 3, lines 15-20; col. 4, lines 63-68; and col. 5, lines 1-2); (b) producing a precipitate (See col. 3, lines 20-30); (c) separating by filtration (see col. 4, lines 51-55); (d) washing (see col. 4, lines 51-55); (e) drying(see col. 4, lines 51-55); and (f) calcining (see col. 5, lines 64-68). The water soluble copper compound may be cupric nitrate (See col. 3, lines 55-56); the water soluble zinc compound may be zinc nitrate (See col. 3, line 63), the water soluble zirconium compound may be zirconium oxynitrate (see col. 4, lines 1-2), and the water soluble aluminum compound may be aluminum nitrate (see col. 5, line 11). The precipitating agent includes sodium carbonate and sodium hydroxide (See col. 4, lines 19-33).

In regards to claim 2 the limitation "(Cu + Zn)/(Al + Zr) = 2 to 4" is provided by Table 1 Examples 5, 6, 7, 9, 10, and 11 which include the molecular ratio of the components before preparing the catalyst.

In regards to claims 3, Osugi et al clearly discloses the catalyst made by the process of claims 1 and 2.

Therefore no difference is seen between the instantly claimed invention and Osugi et al.

#### **Response to Arguments**

3. Applicant's arguments filed 4/14/03 have been fully considered but they are not persuasive. Applicant's argue that "The reference teaches a catalyst for producing methanol by reacting carbon monoxide and/or carbon dioxide with hydrogen in a vapor phase, however, does not teach a catalyst having activity of converting methanol to hydrogen gas containing no CO at al, or containing very little OC by oxidative reforming reaction."

This argument is not persuasive, since although the newly added limitation of claims 1 and 2, is not disclosed by Osugi et al, the property will be inherently provided by the catalyst of Osugi et al once the catalyst is used and produced as instantly claimed. See *In re Spada*, 911, F.2d 705, 709, 15 USPQ 2d 1655, 1658 (Fed. Cir. 1990).

In response to applicant's arguments, the recitations "having activity of converting methanol to hydrogen gas containing almost no CO by oxidative steam reforming reaction wherein partial oxidation and steam reforming reaction are performed" and "having activity of converting methanol to hydrogen gas containing almost no CO by oxidative steam reforming reaction of methanol" have not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites

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the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to the examiner Maribel Medina. The examiner can normally be reached on Monday through Friday from 7:30 AM to 3:30 PM. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Examiner: Maribel Medina Mw

Tel: 703-305-1928 Fax: 703-872-9310

June 3, 2003

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